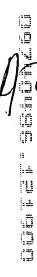
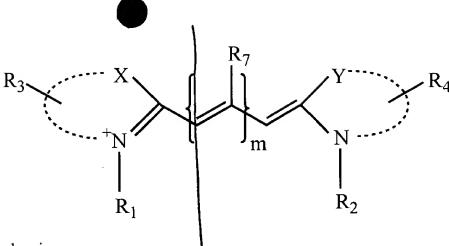
at least one of the groups R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub> and R<sub>7</sub> contains a reactive group, said group covalently reactive with amine, sulfhydryl or hydroxy groups; and

reacting said cyanine dye with said component under reaction conditions sufficient for forming a covalent bond between said reactive group and said amine, sulfhydryl or hydroxy group so that said dye labels said component.

- 10. The method recited in claim 9 wherein said component is a molecule selected from the group consisting of antibodies, proteins, peptides, enzyme substrates, hormones, lymphokines, metabolites, receptors, antigens, haptens, lectins, toxins, carbohydrates, sugars, oligosaccharides, polysaccharides, nucleotides, derivatized nucleotides, nucleic acids, deoxy xúcleic acids, derivatized nucleic acids, derivatized deoxy nucleic acids, DNA fragments, RNA fragments, derivatized DNA fragments, derivatized RNA fragments and drugs.
- The method recited in claim 9 wherein said component is selected from the group consisting of soluble polymers, plastics and glass surfaces.
- 12. The method recited in claim 9 wherein said reactive group is selected from the group consiting of isothiocyanate, isocyanate, phosphoramidite, monochlorotriazine, dichlorotriazine, mono- or di- halogen substituted pyridine, mono- or di- halogen substituted diazine, aziridine, sulfonyl halide, acid halide, hydroxysuccinimide ester, hydroxy sulfosuccinimide ester, imido ester, glyoxal and aldehyde.
- 13. A component labeled with a luminescent cyanine dye comprising:
  a component having an amino, sulfhydryl or hydroxy group covalently bound to a
  luminescent cyanine dye having the structure





wherein:

the dotted lines each represent carbon atoms necessary for the formation of said cyanine dye;

X and Y are independently selected from the group consisting of O, S, and

CH<sub>3</sub>-C-CH<sub>3</sub>;

m is an integer from 1-4; and

at least one  $R_1$ ,  $R_2$ ,  $R_3$   $R_4$  and  $R_7$  contains a reactive group, covalently reactive with amine, sulfhydryl or hydroxy nucleophiles.

- 14. The component recited in claim 13 wherein said component is a molecule selected from the group consisting of antibodies, proteins, peptides, enzyme substrates, hormones, lymphokines, metabolites, receptors, antigens, haptens, lectins, toxins, carbohydrates, sugars, oligosaccharides, polysaccharides, nucleotides, derivatized nucleotides, nucleic acids, deoxy nucleic acids, derivatized nucleic acids, derivatized deoxy nucleic acids, DNA fragments, RNA fragments, derivatized DNA fragments, derivatized RNA fragments and drugs.
- 15. The component recited in claim 13 wherein said component is selected from the group consisting of soluble polymers, plastics and glass surfaces.
- 16. The emponent recited in claim 13 wherein said reactive group is selected from the group consiting of isothiocyanate, isocyanate, phosphoramidite, monochlorotriazine,

dichlorotriazine, mono- or di- halogen substituted pyridine, mono- or di- halogen substituted diazine, aziridine, sulfonyl halide, acid halide, hydroxysuccinimide ester, hydroxy sulfosuccinimide ester, imide ester, glyoxal and aldehyde.--

## CONCLUSION

This application is a continuation of co-pending United States application Serial No. 08/745,712, filed November 12, 1996, which is a continuation-in-part of U.S. application Serial No. 07/831,759, filed September 22, 1992, now U.S. Patent No. 5,627,027, which is a continuation of U.S. application Serial No. 06/854,347, filed April 18, 1986, now abandoned.

Original claims 1-8 have been deleted and claims 9-16 have been added to the instant application. Present pending claims 9-16 are presented herein for consideration. Support for the added claims can be found, for example, on page 2, lines 25-31; page 3, lines 20-27; from page 4, line 19 to page 9, line 8; page 10, lines 1-15; from page 15, line 7 to page 17, line 31; from page 18, line 25 to page 27, line 2; in the examples, drawings and elsewhere in the specification.

Accordingly, no new matter has been introduced by the addition of claims 9-16.

Entry of this Preliminary Amendment prior to substantive review of the instant application, and allowance of all claims 9-16 are earnestly solicited.